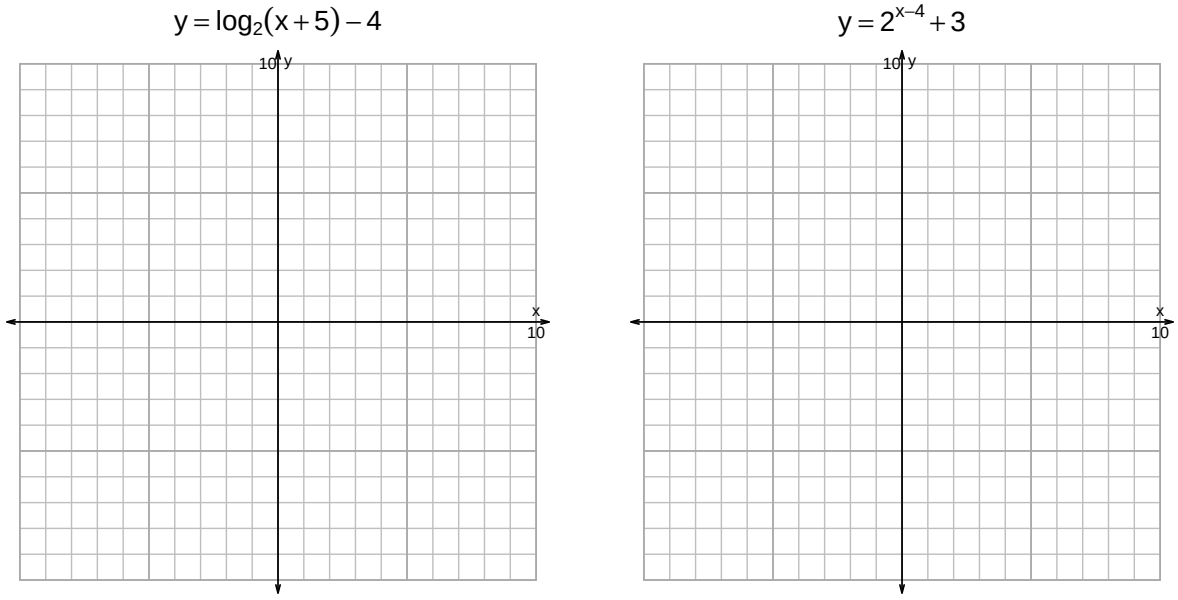
Name: Date:

s18quiz: EXP LOG (Practice v131)

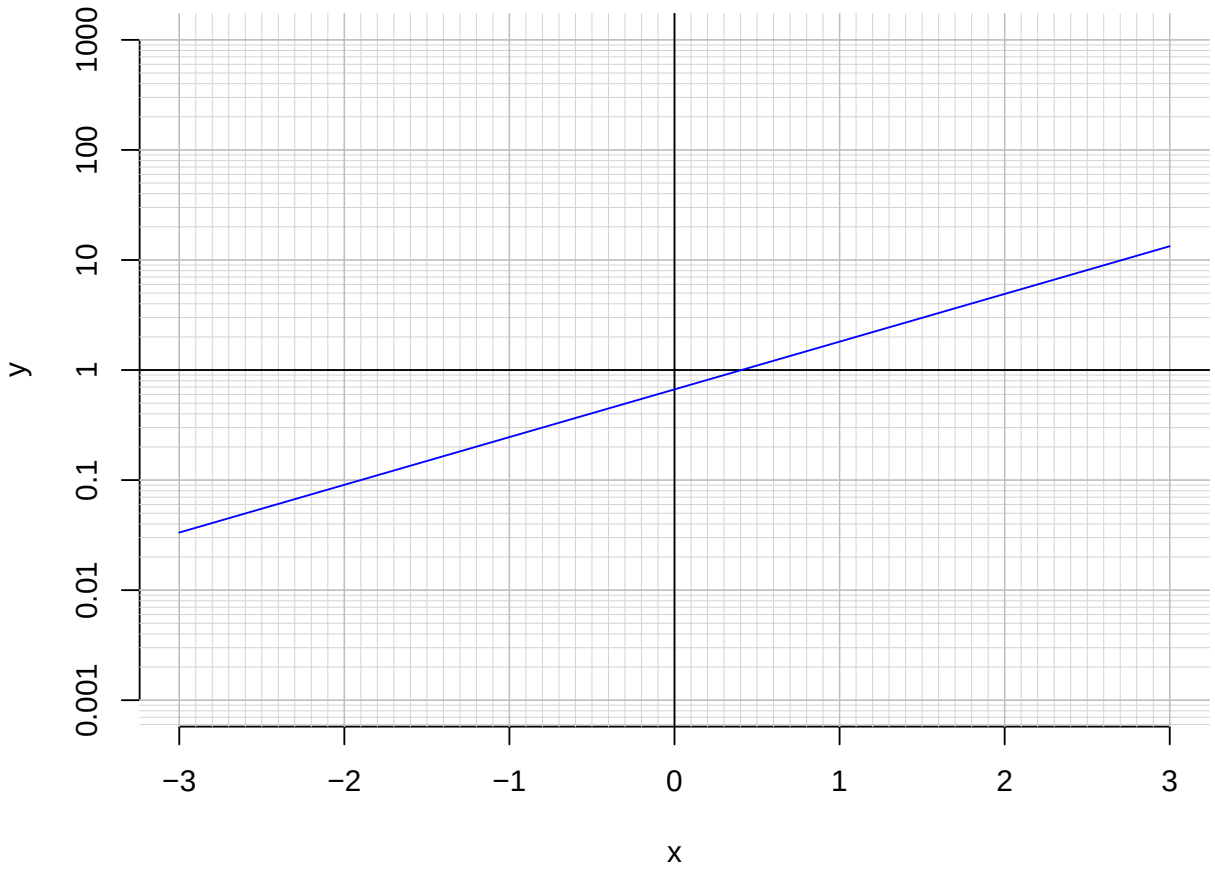
1. Graph $y = \log_2(x+5) - 4$ and $y = 2^{x-4} + 3$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-19 = \left(\frac{-5}{7}\right) \cdot 10^{3t/4}$$

3. An exponential function $f(x) = 0.667 \cdot e^{0.998x}$ is graphed below on a semi-log plot.



a. Using the plot above, evaluate $f(2.2)$.

b. Express $f^{-1}(x)$, the inverse of f.

c. Using the plot above, evaluate $f^{-1}(0.9)$.